

INFORMATION DISCLOSURE CITATION
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ATTY DOCKET NO.
UCT-0037

SERIAL NO.
10/641,705

Can Erkey et al.

FILING GROUP
08/15/2003

JAN 26 2004

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SW	US 2002/0070167	6/13/2002	Krasutsky et al.	210	634	
	4,933,404	6/12/1990	Beckman et al.	526	207	
	4,996,366	2/26/1991	Tinucci et al.	508	454	
	5,158,704	10/27/1992	Fulton et al.	252	309	
	5,266,205	11/30/1993	Fulton et al.	210	639	
	5,238,671	8/24/1993	Matson et al.	423	397	
	5,770,172	6/23/1998	Linehan et al.	423	501.1	
	5,814,678	8/29/1998	Randolph	522	18	
SW	6,299,652	10/9/2001	Jureller et al.	8	142	
SW	6,452,055	9/17/2002	Koch et al.	508	454	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SW		WO9961401; A1; 19991202 (Abstract Only)
SW		Smith, R. T. et al., "Rhodium Complexes of the Water-Soluble Phosphine Ph ₂ PCH ₂ CH ₂ NMe ₃ ⁺ . Their Complexes with Hydride, Olefin, and Carbon Monoxide Ligands. Their Use as Olefin Hydrogenation and Hydroformylation Catalysts in Aqueous Solution and in Aqueous/Organic Solvent Two-Phase Systems and Adsorbed on A Cation-Exchange Resin", Organometallics, 1983, 2, 1138-1144,

EXAMINER	S. Wetherup	DATE CONSIDERED	6/16/04
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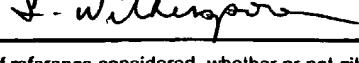
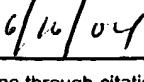
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EXAMINER <i>Initials</i> <i>TRADE NAME</i>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
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<i>SW</i>			Hou, M-J. et al., "Effects of the Molecular Structure of the Interface and Continuous Phase on Solubilization of Water in Water/Oil Microemulsions", Langmuir 1987, 3, 1086-1096.				
<i>SW</i>			Arhancet, J. P. et al., "Hydroformulation by supported aqueous-phase catalysis: a new class of heterogeneous catalysts", Nature, 339 (1989), 454-455.				
EXAMINER <i>S. Withycoo</i>			DATE CONSIDERED <i>6/16/04</i>				

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EXAMINER INITIALS	TRADEMARK	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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							YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<i>(initials)</i>		Johnston, K. P. et al., "Water-In-Carbon Dioxide Microemulsions: An Environment for Hydrophiles Including Proteins", Science, Vol 271, (1996), 624-626.					
<i>(initials)</i>		Kragl et al., "Membrane Reactors in Homogeneous Catalysis", Appl. Homogeneous Catal. Organomet. Compd. 1996, Vol 2, 832-843.					
EXAMINER <i>Sekar Wuthapa</i>			DATE CONSIDERED		<i>6/16/04</i>		
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EXAMINER INITIALS	SEARCHED	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
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			Clarke, M. J. et al., "Water in Supercritical Carbon Dioxide Microemulsions: Spectroscopic Investigation of a New Environment for Aqueous Inorganic Chemistry", J. Am. Chem. Soc. 1997, 119, 6399-6406.					
			Deshpande, R. M. et al., "Effect of pH on rate and selectivity behavior in biphasic hydroformulation of 1-octene", Journal of Molecular Catalysis A: Chemical 126 (1997) 133-140.					
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*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Authors, Title, Date, Pertinent Pages, Etc.)</i>		
<i>(S.W.)</i>	<p>Heitz, M. P. et al., "Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide", J. Phys. Chem B 1997, 101, 6707-6714.</p>		
<i>(S.W.)</i>	<p>Cornils, B. et al., "Aqueous-Phase Organometallic Catalysis; Concepts and Applications", 1998, Weinheim, Germany: Wiley-VCH, 59-143.</p>		
<i>(S.W.)</i>	<p>Horvath, I. T., "Fluorous Biphase Chemistry", Acc. Chem. Res. 1998, 31, 10, 641-650.</p>		
<i>(S.W.)</i>	<p>Niemeyer, E. D., "The pH within PFPE Reverse Micelles Formed in Supercritical CO₂", J. Phys. Chem. B 1998, 102, 1474-1478.</p>		
<i>(S.W.)</i>	<p>Cornils, B., "Bulk and Fine Chemicals Via Aqueous Biphasic Catalysis", Journal of Molecular Catalysis A: Chemical 143 (1999) 1-10.</p>		
<i>(S.W.)</i>	<p>Holmes, J. D. "Synthesis of Cadmium Sulfide Q Particles in Water-in-CO₂ Microemulsions", Langmuir 1999, 15, 6613-6615.</p>		
<i>(S.W.)</i>	<p>Holmes, J. D. "Buffering the Aqueous Phase pH in Water-in-CO₂ Microemulsions", J. Phys. Chem. B 1999, 103, 5703-5711.</p>		
<i>(S.W.)</i>	<p>Jacobson, G. B., "Organic Synthesis in Water/Carbon Dioxide Microemulsions", J. Org. Chem. 1999, 64, 1201-1206.</p>		
<i>(S.W.)</i>	<p>Jacobson, G. B., "Enhanced Catalyst Reactivity and Separations Using Water/Carbon Dioxide Emulsions", J. Am. Chem. Soc. 1999, 121, 11902-11903.</p>		
<i>(S.W.)</i>	<p>Kane, M. A., "Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide", Langmuir 2000, 16, 4901-4905.</p>		
<i>(S.W.)</i>	<p>Liu, Z. et al., "Water in Carbon Dioxide Microemulsions with Fluorinated Analogues of AOT", Langmuir 2001, 17, 274-277.</p>		
<i>(S.W.)</i>	<p>Dong, X. et al., "Behavior and Micelle Size of an Aqueous Microdispersion in Supercritical CO₂ with a Novel Surfactant", Ind. Eng. Chem. Res. 2002, 41, 1038-1042.</p>		
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<i>(SW)</i>	X. Dong et al., "Synthesis of CuS Nanoparticles in Water-in-Carbon Dioxide Microemulsions", Ind. Eng. Chem. Res. 2002, 41, 4489-4493.		
	Can Erkey et al., "Hydroformylation of ethylene in supercritical carbon dioxide using Ru(CO)12 as a catalyst precursor", Catalysis Communications 3 (2002) 213-219.		
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	Ohde, H. et al., "Water-in-CO ₂ Microemulsions as Nanoreactors for Synthesizing CdS and ZnS Nanoparticles in Supercritical CO ₂ ", Nano Letters 2002, Volume 2, Number 7, pages 721-724.		
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	http://www.cmt.anl.gov/toroid-cavity/poster1/aip-04index.html ; printed 8/5/2002; 18 pages.		
	Keith P. Johnston et al., "Reactions and Synthesis in Microemulsions and Emulsions in Carbon Dioxide", Surfactant Synthesis Series (2001), 100 (Reactions and Synthesis in Surfactant Systems), 349-358.		
	David E. Fremgen et al., "Microemulsions of water in superficial carbon dioxide: an in-situ NMR investigation of micelle formation and structure" Journal of Supercritical Fluids 19 (2001) 287-298.		
	Gunilla B. Jacobson et al., "Biphasic Catalysis in Water/Carbon Dioxide Micellar Systems", (Abstract Only), American Chemical Society, 217th ACS National Meeting 0-8412-3672-0, March 21-25, 1999.		
<i>↓</i>	J. D. Holmes et al., "Bioconversions in a Water-in-CO ₂ Microemulsion", Langmuir, Vol. 14, No. 22, 1998, 6371-6376.		
<i>(SW)</i>	Yutaka Ikushima, "Supercritical fluids: an interesting medium for chemical and biochemical processes", Advances in Colloid and Interface Science 71-72 (1997) 259-280.		
EXAMINER	<i>S. Wilkinson</i>	DATE CONSIDERED	<i>6/16/04</i>

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(QW)	Marina A. Hauck et al., "Hemoproteins-Catalyzed Oxidations of Organosulfur Compounds in Reverse Micelles, Microemulsions, and Emulsions in Supercritical Fluids", (Abstract Only), American Chemical Society, 222nd ACS National Meeting 0-8412-3803-0, August 26-30, 2001.		
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	Robert H. Grubbs et al., "Catalytic Reduction of Olefins with a Polymer-Supported Rhodium(I) Catalyst" Journal of the American Chemical Society, 93:12, June 16, 1971, pages 3062-3063.		
(Su)	M. Capka et al., "Hydrogenation, Hydrosilylation and Hydroformylation of Olefins Catalysed by Polymer-Supported Rhodium Complexes", Tetrahedron Letters No. 50, pp 4787-4790, 1971.		
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